

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120319\
 Data File : BF118076.D
 Acq On : 3 Dec 2019 21:44
 Operator : JU
 Sample : K6024-02
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 04 00:36:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 03 15:16:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	136245	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	537926	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	282319	20.00	ng	0.00
64) Phenanthrene-d10	11.42	188	523040	20.00	ng	0.00
76) Chrysene-d12	14.07	240	329993	20.00	ng	0.00
87) Perylene-d12	15.57	264	353366	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	843849	109.63	ng	0.00
7) Phenol-d6	6.50	99	1066527	114.88	ng	0.00
23) Nitrobenzene-d5	7.44	82	649055	71.73	ng	0.00
42) 2,4,6-Tribromophenol	10.72	330	358392	119.91	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	1121550	71.27	ng	0.00
79) Terphenyl-d14	13.01	244	1162390	64.38	ng	0.00

Target Compounds

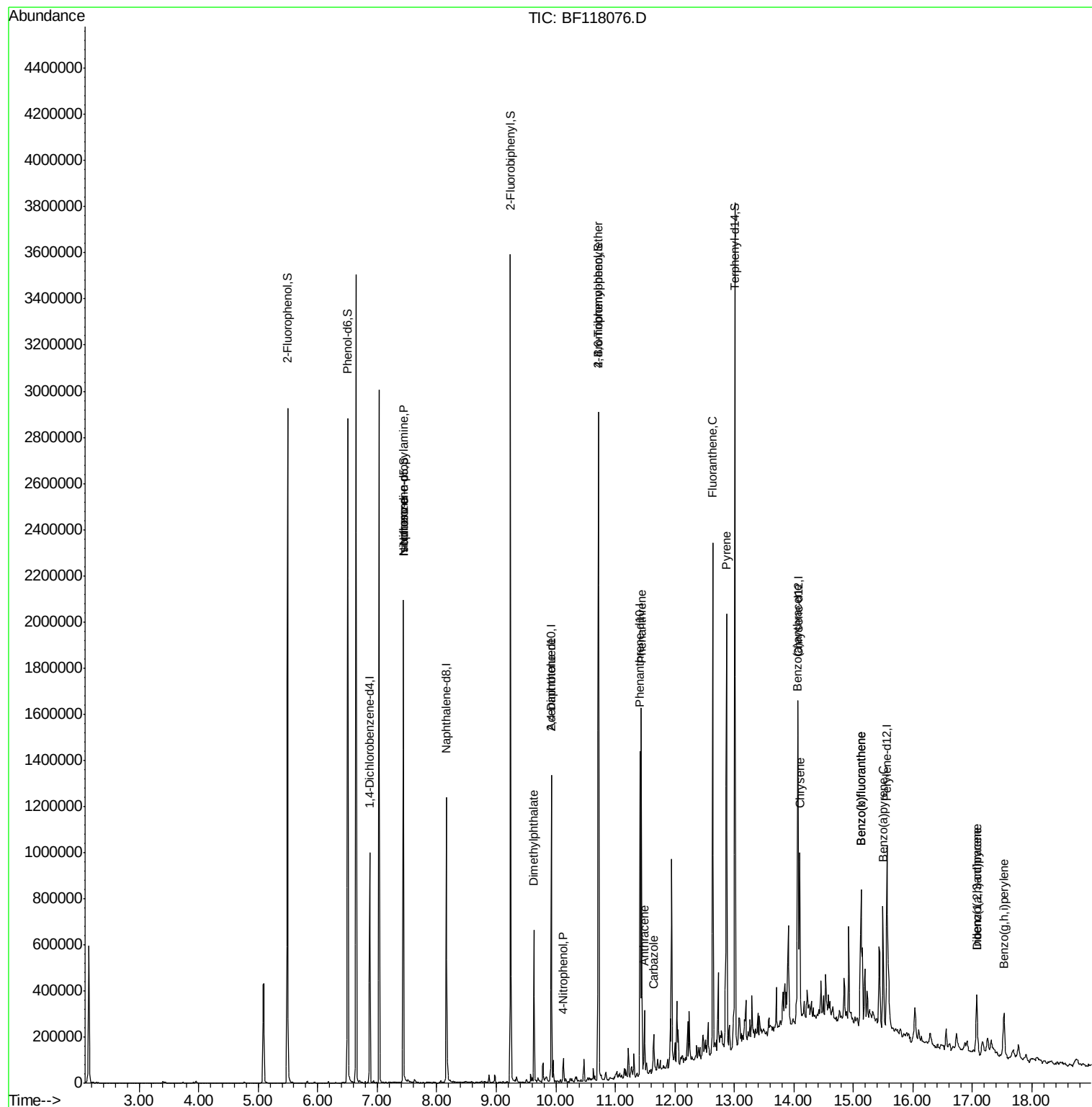
						Qvalue
9) Benzaldehyde	6.50	77	1963	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.44	70	89032	15.545 ng	#	73
25) Isophorone	7.44	82	649051	39.134 ng	#	63
50) Dimethylphthalate	9.63	163	239329	12.089 ng		99
56) 4-Nitrophenol	10.13	139	11127	2.879 ng	#	10
57) 2,4-Dinitrotoluene	9.93	165	37245	6.767 ng	#	33
67) 4-Bromophenyl-phenylether	10.72	248	22286	3.949 ng	#	1
71) Phenanthrene	11.45	178	607757	23.112 ng		99
72) Anthracene	11.49	178	93229	3.576 ng		98
73) Carbazole	11.65	167	56593	2.484 ng		98
75) Fluoranthene	12.64	202	816257	31.895 ng		99
78) Pyrene	12.87	202	702093	26.327 ng		100
81) Benzo(a)anthracene	14.06	228	301661	13.834 ng		97
83) Chrysene	14.10	228	289002	13.677 ng		98
86) Indeno(1,2,3-cd)pyrene	17.07	276	168802	9.386 ng		94
88) Benzo(b)fluoranthene	15.13	252	462208	20.133 ng		98
89) Benzo(k)fluoranthene	15.13	252	462208	21.367 ng		97
90) Benzo(a)pyrene	15.50	252	254185	12.591 ng		99
91) Dibenzo(a,h)anthracene	17.08	278	40881	2.353 ng	#	87
92) Benzo(a,h,i)perylene	17.53	276	160001	9.245 ng		98

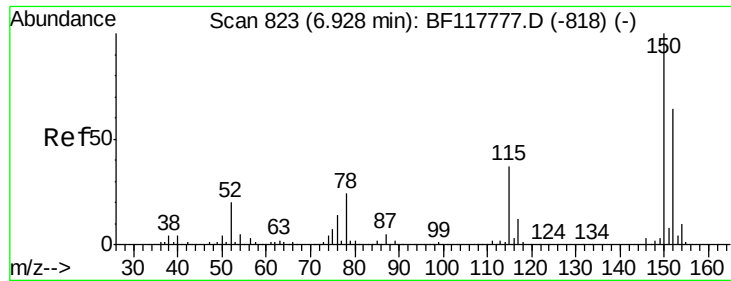
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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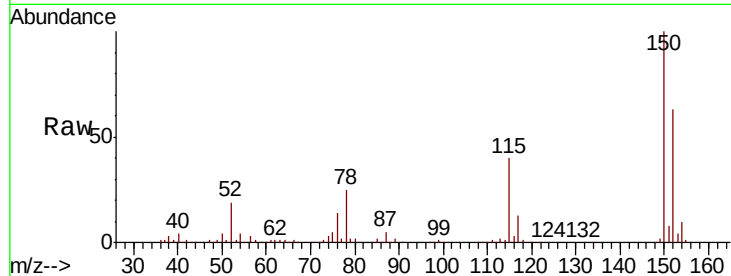


#1

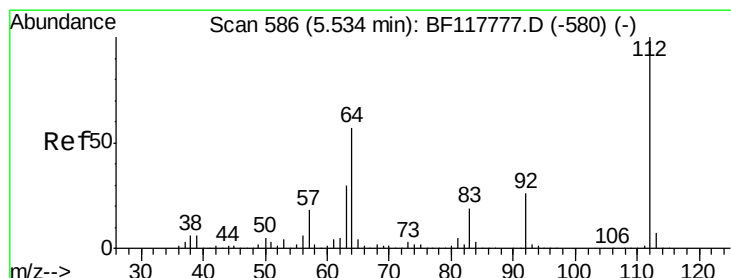
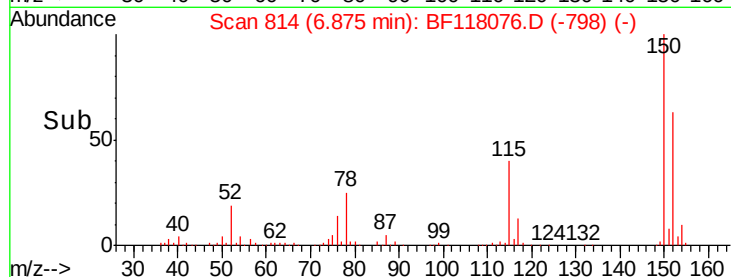
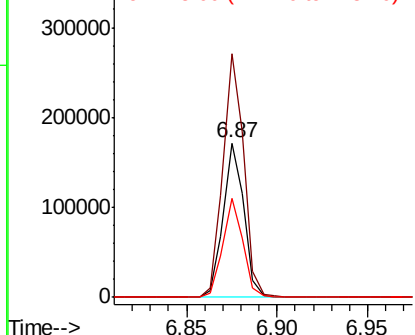
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 136245
Ion Ratio Lower Upper
152 100
150 157.6 121.4 182.2
115 63.7 48.8 73.2



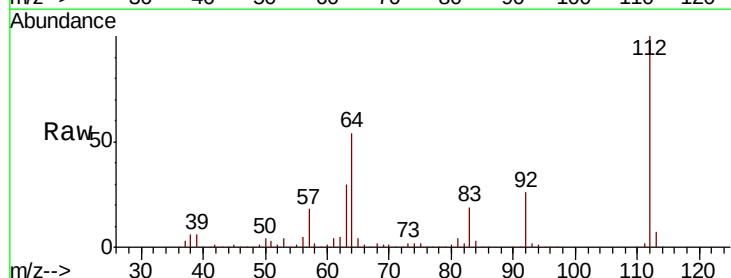
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



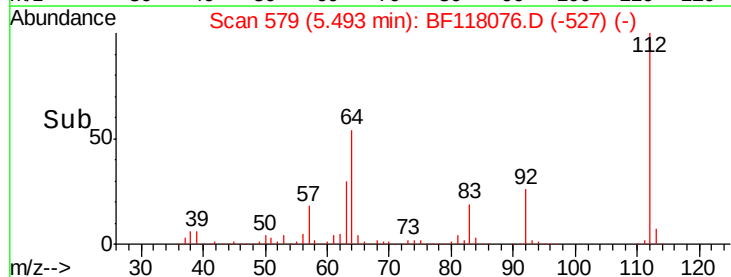
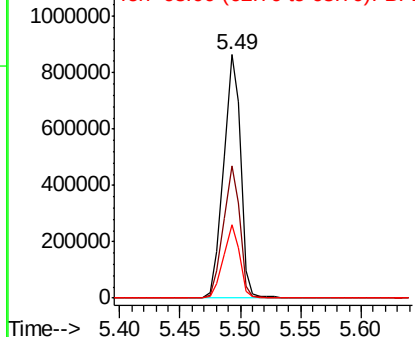
#5

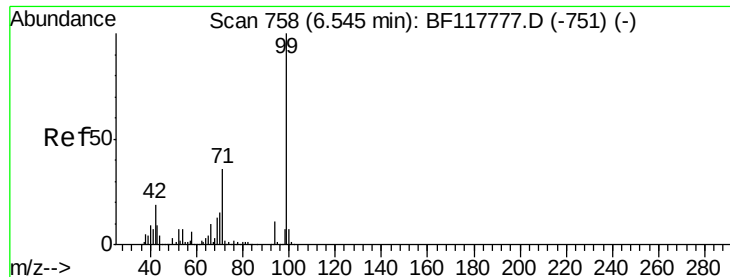
2-Fluorophenol
Concen: 109.634 ng
RT: 5.49 min Scan# 579
Delta R.T. 0.01 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

Tgt Ion:112 Resp: 843849
Ion Ratio Lower Upper
112 100
64 54.1 45.1 67.7
63 30.0 24.6 37.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 114.880 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

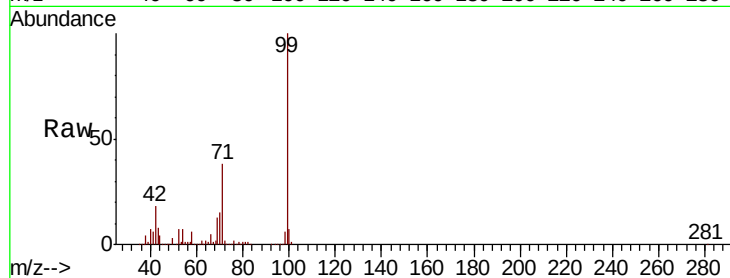
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1066527

Ion	Ratio	Lower	Upper
99	100		
42	17.7	14.0	21.0
71	37.7	29.2	43.8

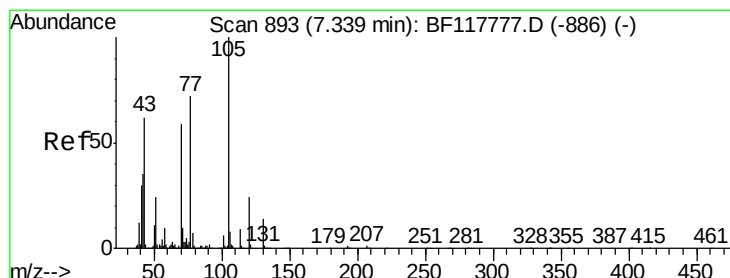
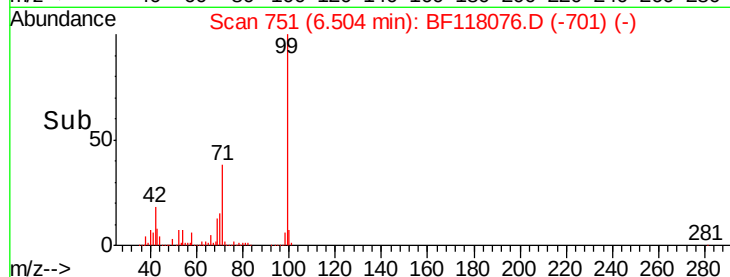
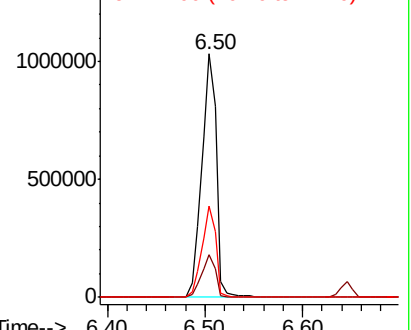


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 15.545 ng

RT: 7.44 min Scan# 910

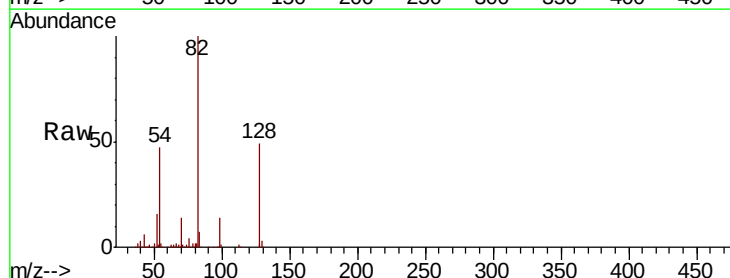
Delta R.T. 0.15 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

Tgt Ion: 70 Resp: 89032

Ion	Ratio	Lower	Upper
70	100		
42	43.9	46.0	69.0#
101	0.0	8.8	13.2#
130	2.3	19.8	29.6#



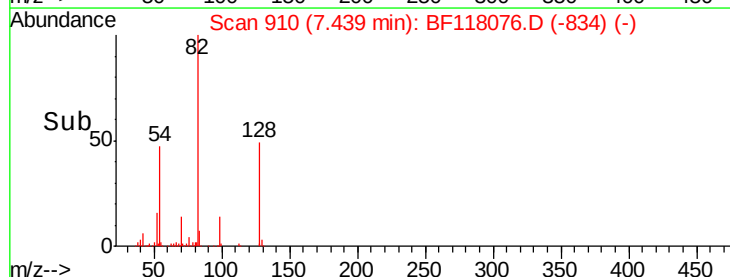
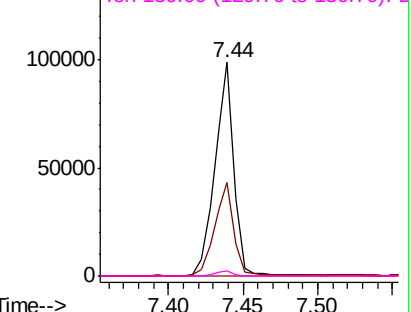
Abundance

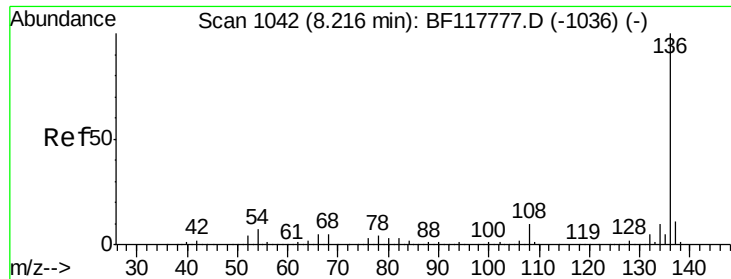
Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

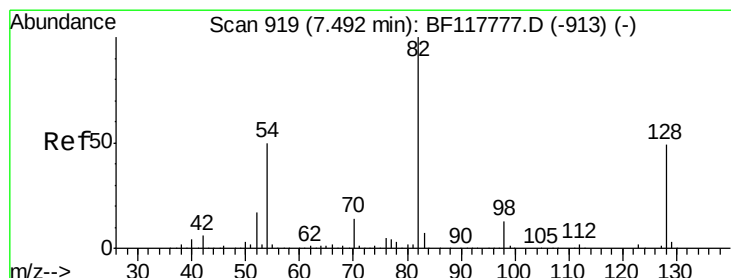
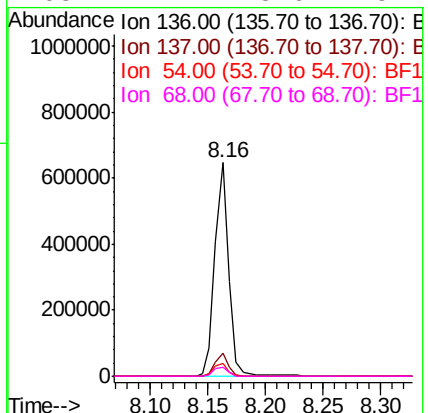
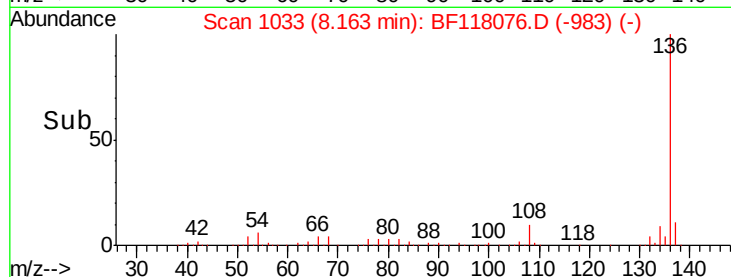
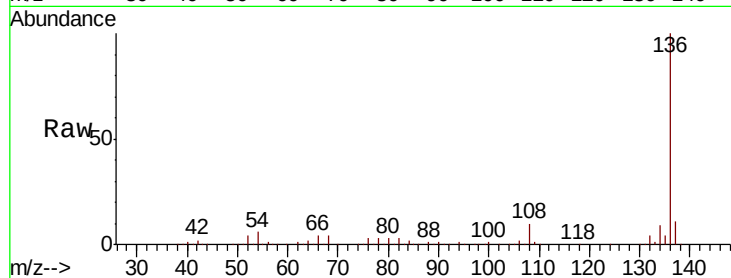




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.01 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

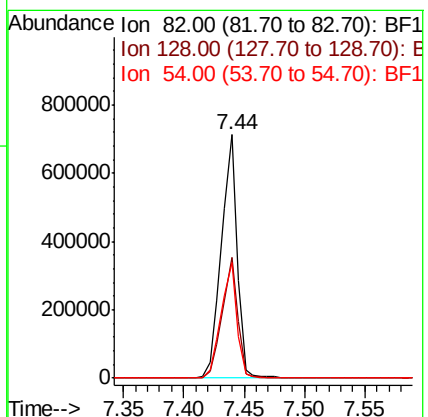
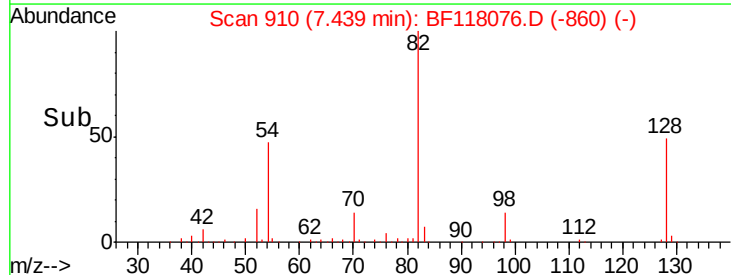
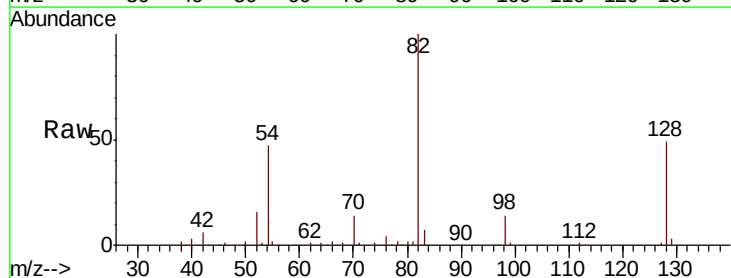
Instrument :
BNA_F
ClientSampled :

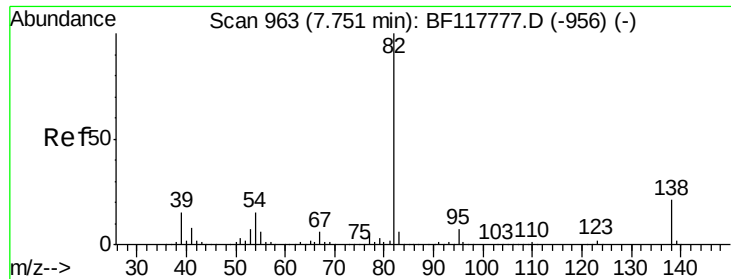
Tot Ion:136	Resp:	537926
Ion	Ratio	Lower Upper
136	100	
137	10.8	9.1 13.7
54	6.0	4.9 7.3
68	4.4	3.6 5.4



#23
Nitrobenzene-d5
Concen: 71.727 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

Tgt Ion: 82	Resp:	649055
Ion	Ratio	Lower Upper
82	100	
128	49.4	38.2 57.4
54	47.4	39.0 58.4





#25

Isophorone

Concen: 39.134 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

Instrument :

BNA_F

ClientSampled :

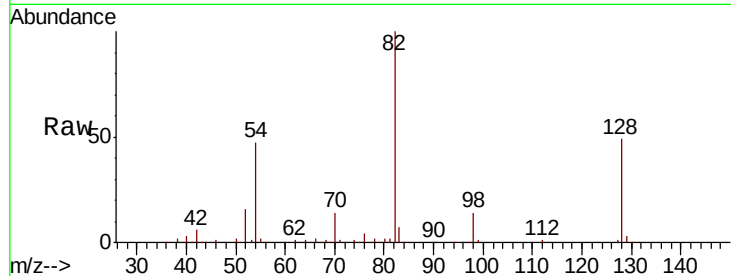
Tot Ion: 82 Resp: 649051

Ion Ratio Lower Upper

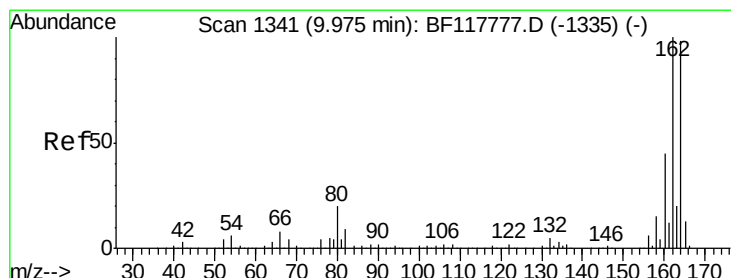
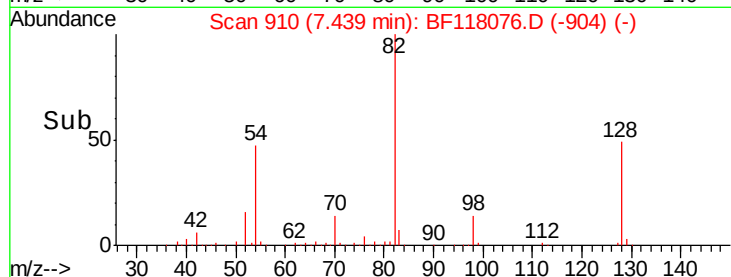
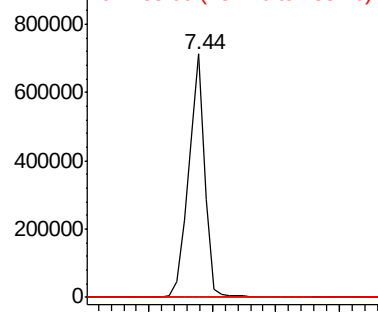
82 100

95 0.0 6.2 9.2#

138 0.0 15.9 23.9#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

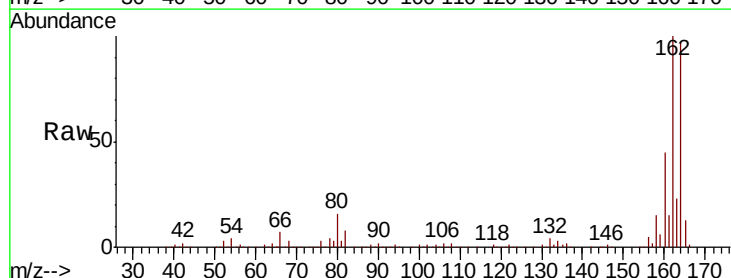
Tgt Ion: 164 Resp: 282319

Ion Ratio Lower Upper

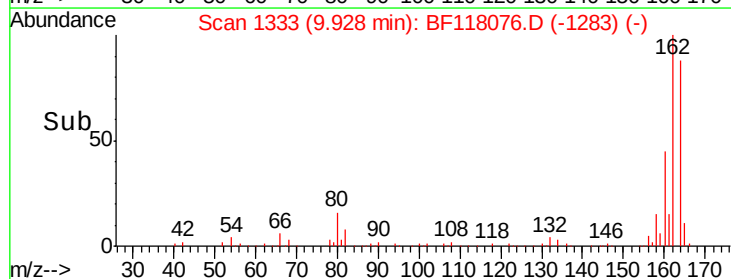
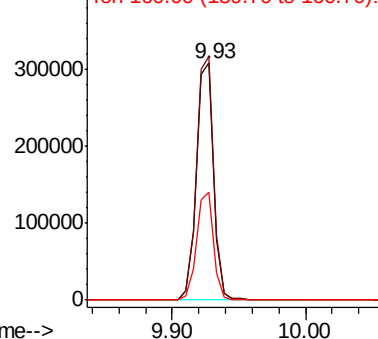
164 100

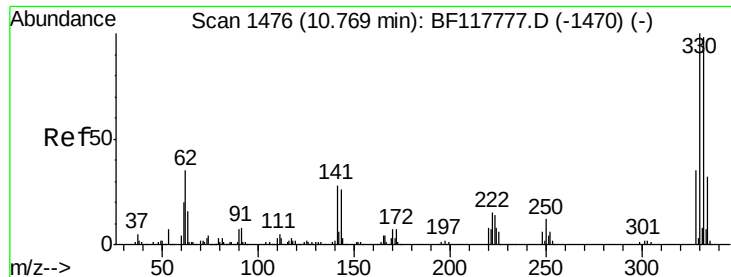
162 102.9 81.8 122.8

160 45.8 35.9 53.9



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 119.908 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

Instrument :

BNA_F

ClientSampled :

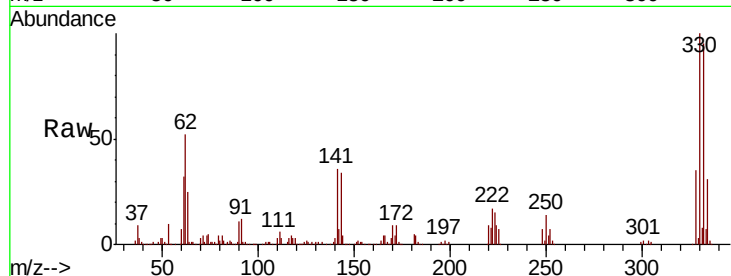
Tot Ion:330 Resp: 358392

Ion Ratio Lower Upper

330 100

332 96.6 78.3 117.5

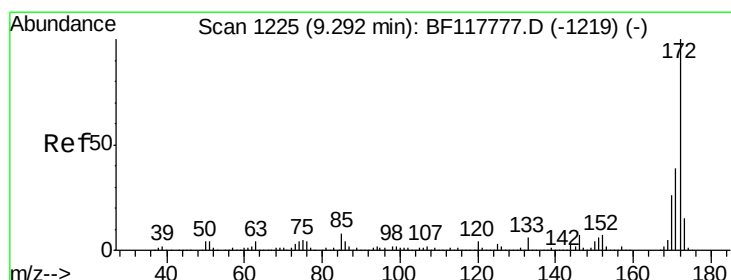
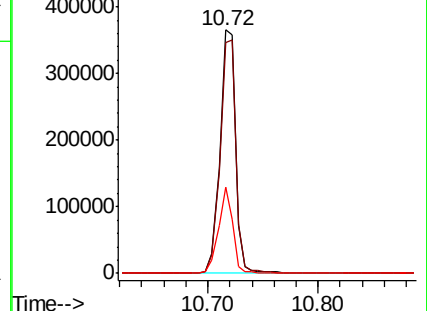
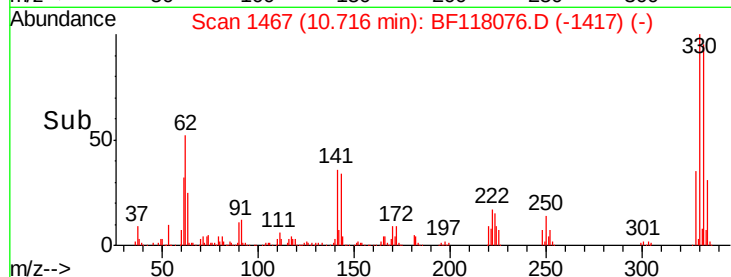
141 32.4 26.4 39.6



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 71.270 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

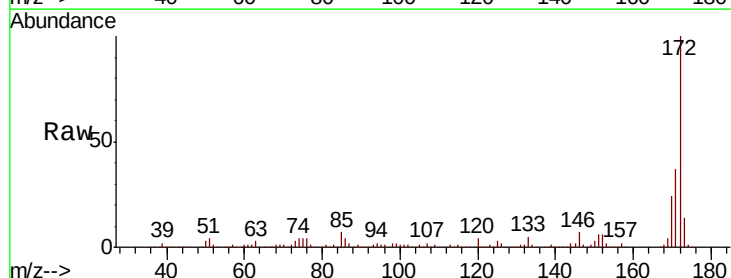
Tgt Ion:172 Resp: 1121550

Ion Ratio Lower Upper

172 100

171 36.6 29.2 43.8

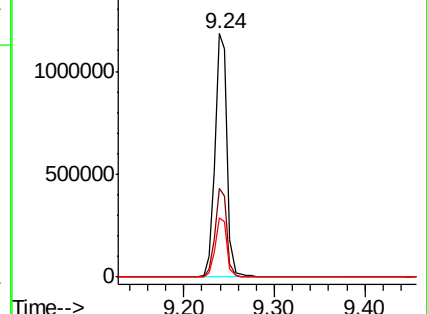
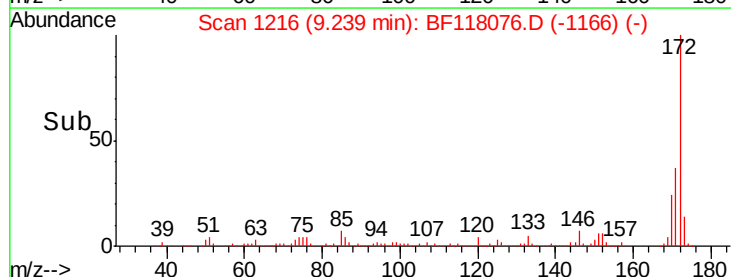
170 24.3 19.3 28.9

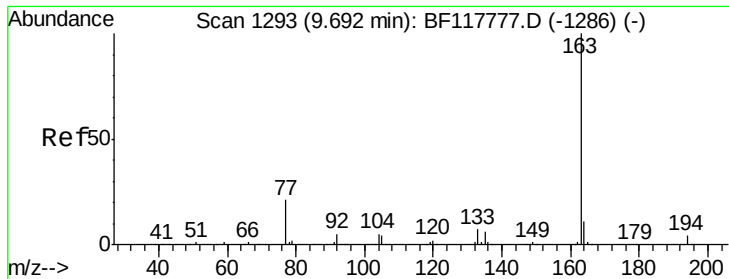


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 12.089 ng

RT: 9.63 min Scan# 1283

Delta R.T. -0.02 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

Instrument :

BNA_F

ClientSampleId :

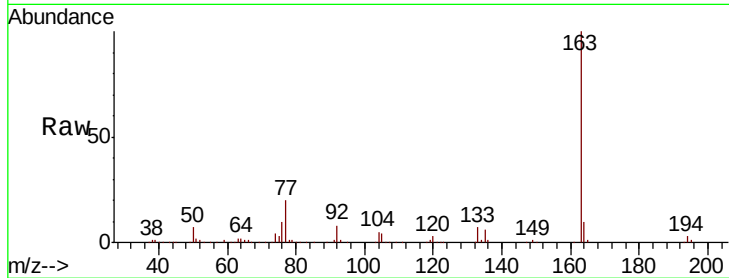
Tot Ion:163 Resp: 239329

Ion Ratio Lower Upper

163 100

194 3.4 3.1 4.7

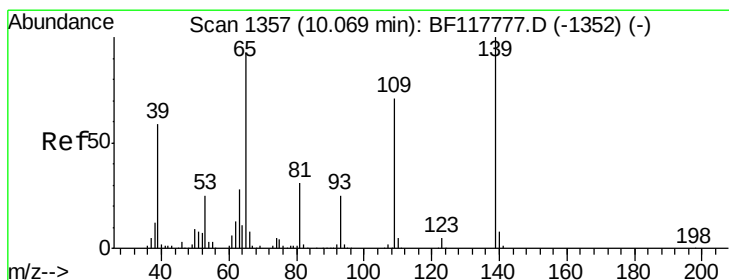
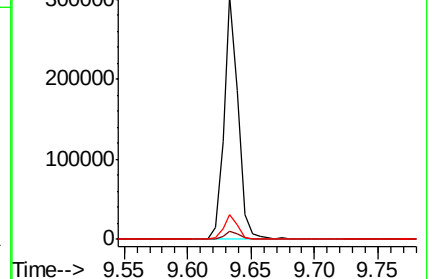
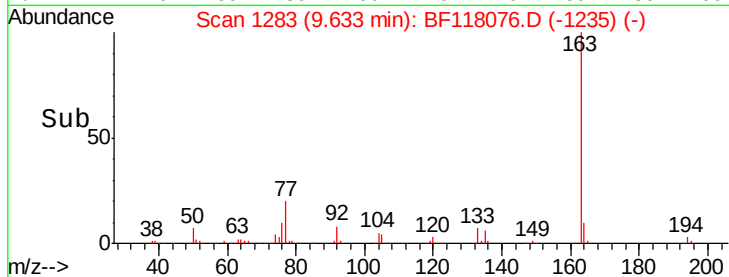
164 10.0 7.9 11.9



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

4-Nitrophenol

Concen: 2.879 ng

RT: 10.13 min Scan# 1367

Delta R.T. 0.09 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

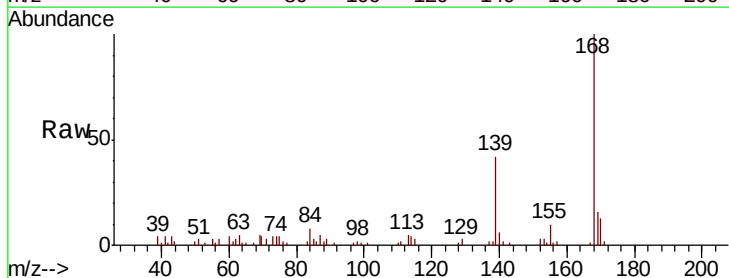
Tgt Ion:139 Resp: 11127

Ion Ratio Lower Upper

139 100

109 0.0 55.2 95.2#

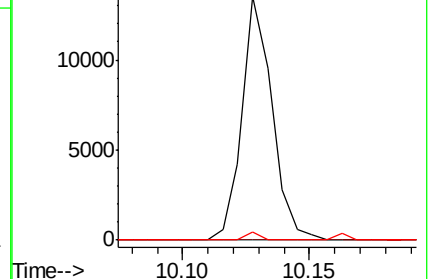
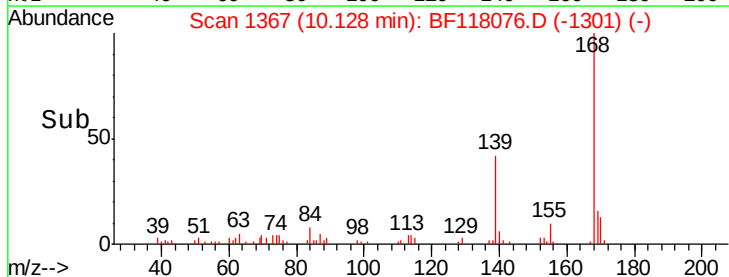
65 3.2 68.7 108.7#

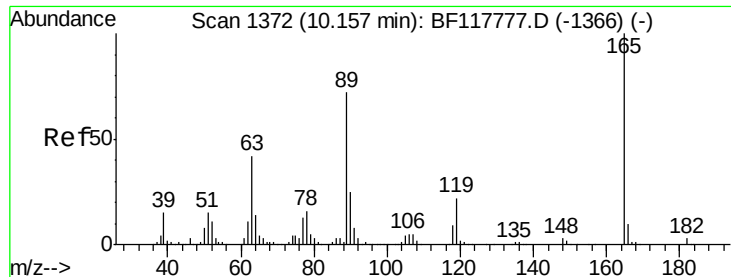


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

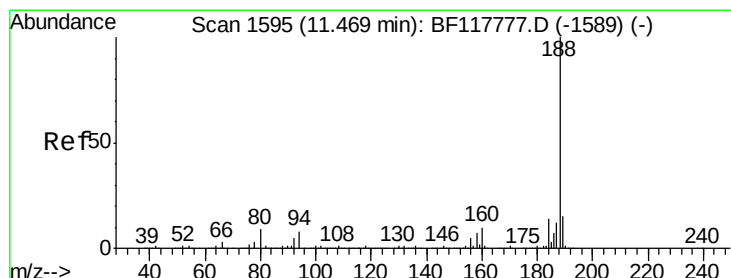
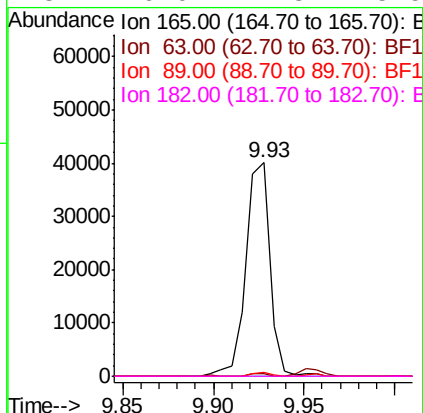
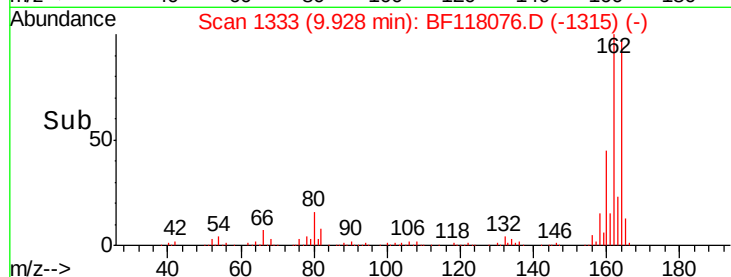
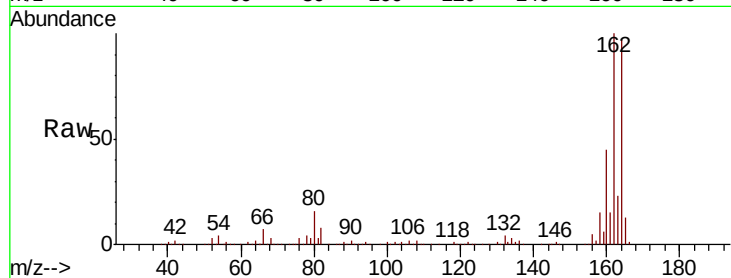




#57
2,4-Dinitrotoluene
Concen: 6.767 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.19 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

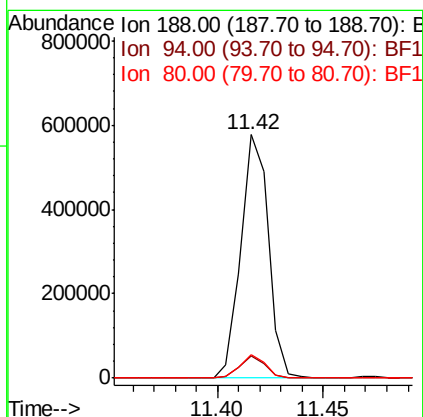
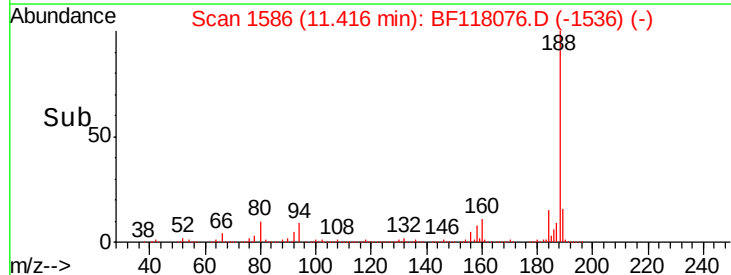
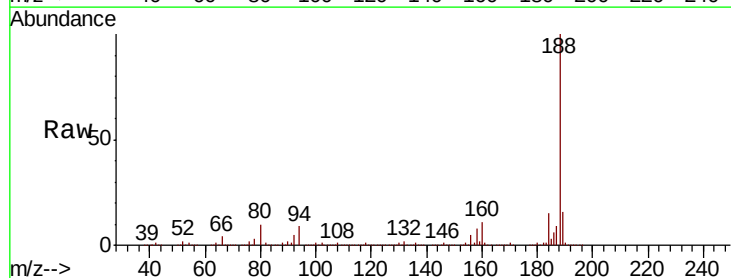
Instrument :
BNA_F
ClientSampleId :

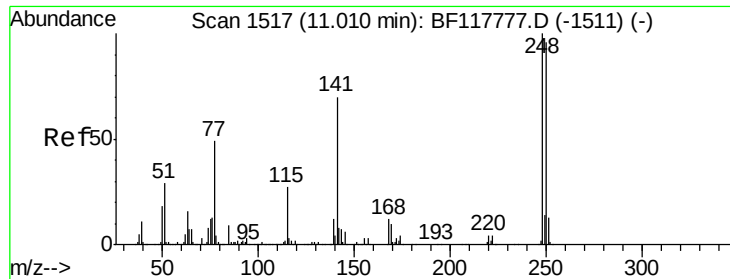
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	26.5	39.7#
89	1.6	47.2	70.8#
182	0.0	2.3	3.5#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.01 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.9	7.0	10.6
80	9.6	7.2	10.8

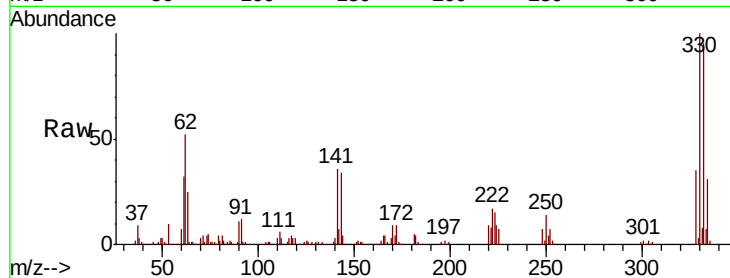




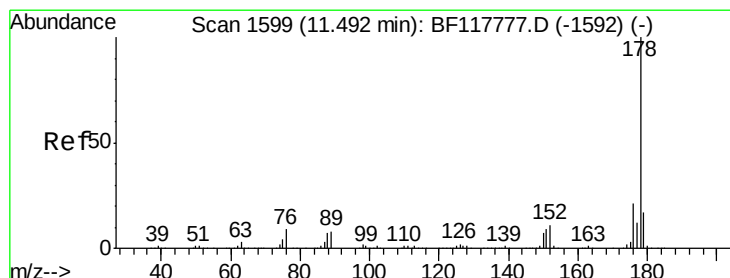
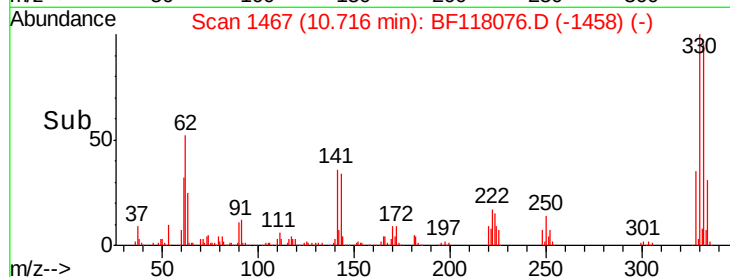
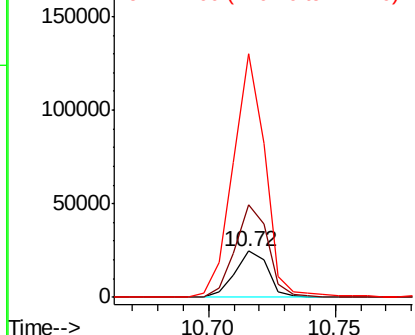
#67
 4-Bromophenyl-phenylether
 Concen: 3.949 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. -0.25 min
 Lab File: BF118076.D
 Acq: 3 Dec 2019 21:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 22286
 Ion Ratio Lower Upper
 248 100
 250 201.8 78.0 117.0#
 141 527.4 64.0 96.0#

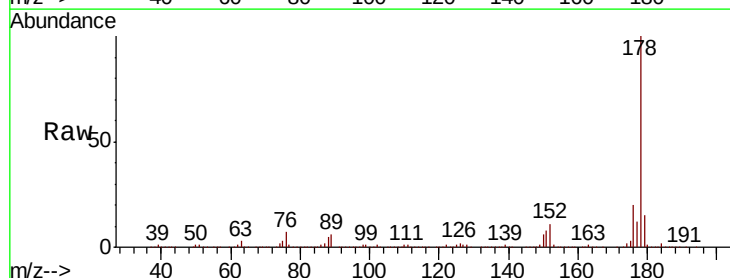


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

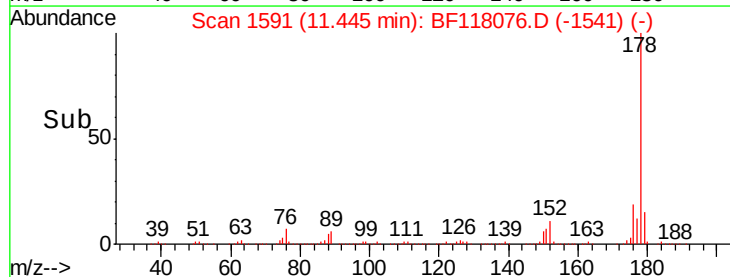
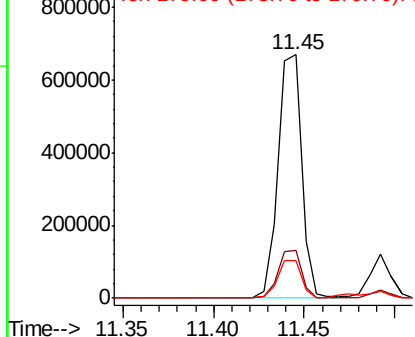


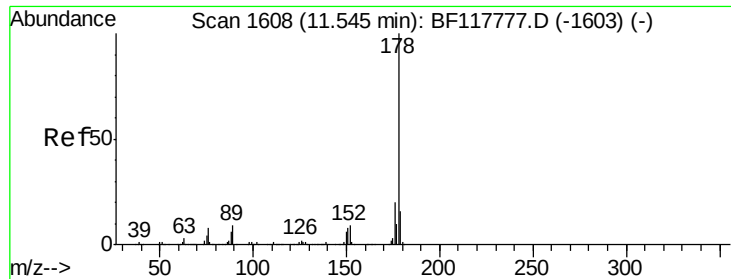
#71
 Phenanthrene
 Concen: 23.112 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. -0.01 min
 Lab File: BF118076.D
 Acq: 3 Dec 2019 21:44

Tgt Ion:178 Resp: 607757
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.4 23.0
 179 15.2 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 3.576 ng

RT: 11.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

Instrument :

BNA_F

ClientSampleId :

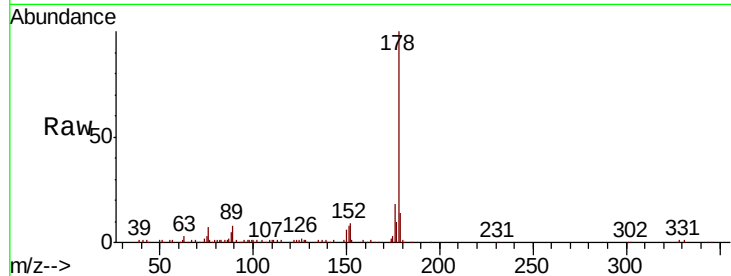
Tot Ion:178 Resp: 93229

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.6

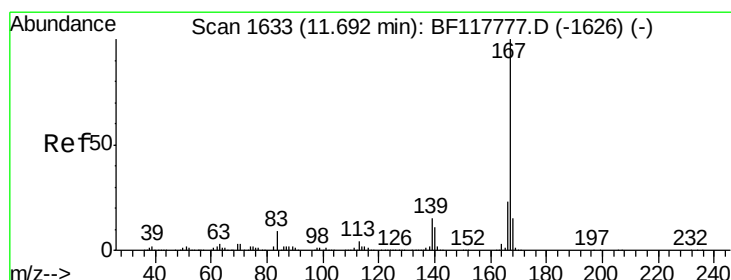
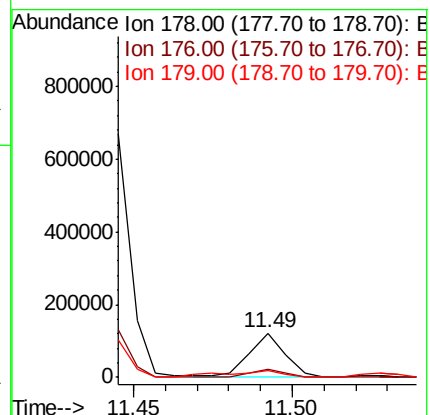
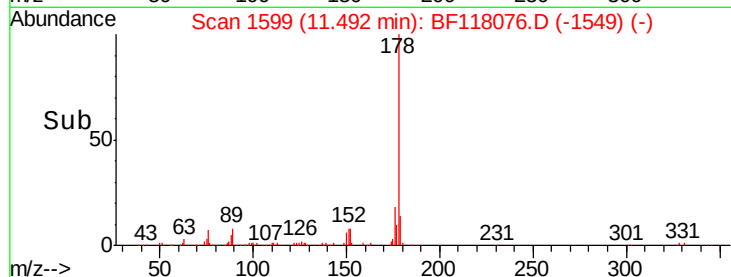
179 14.3 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.484 ng

RT: 11.65 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

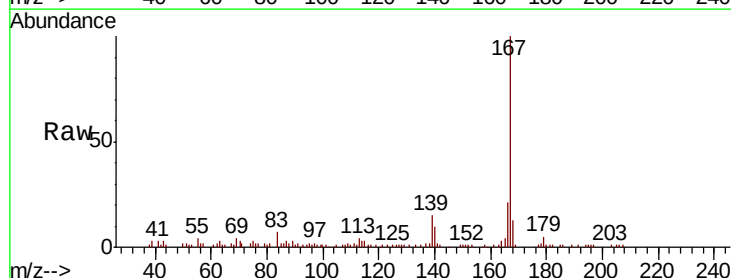
Tgt Ion:167 Resp: 56593

Ion Ratio Lower Upper

167 100

166 20.6 17.6 26.4

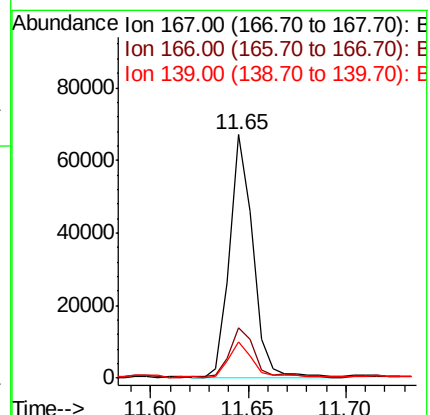
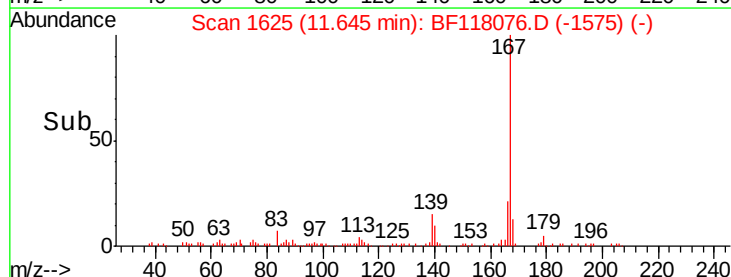
139 14.8 11.5 17.3

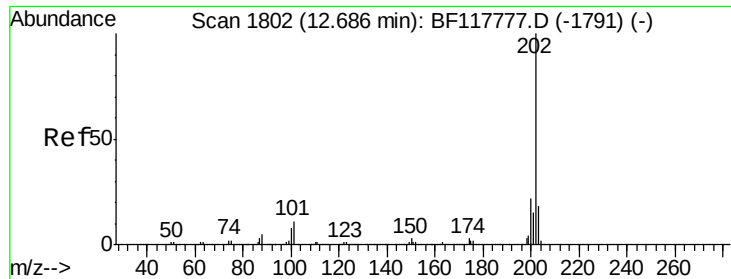


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 31.895 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.00 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

Instrument :

BNA_F

ClientSampleId :

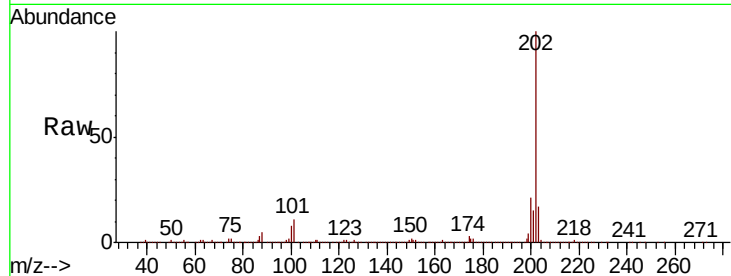
Tot Ion:202 Resp: 816257

Ion Ratio Lower Upper

202 100

101 10.5 0.0 31.5

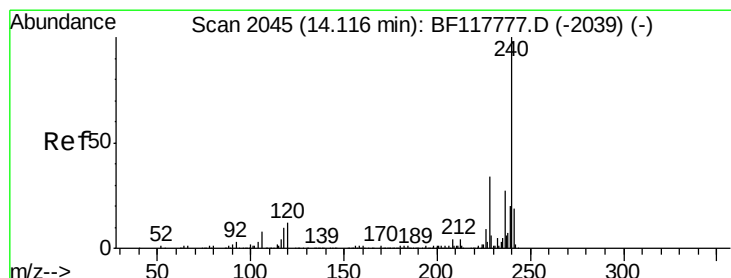
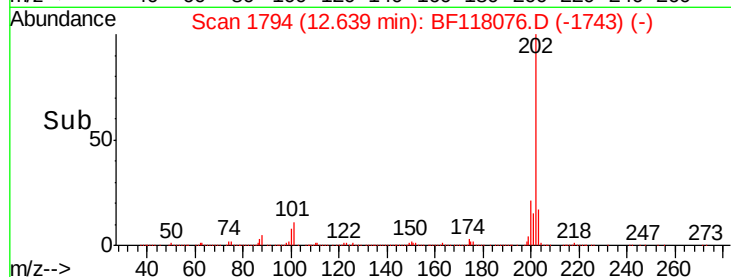
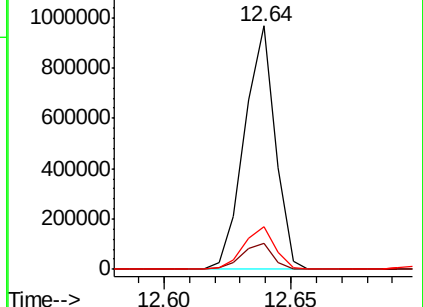
203 17.5 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

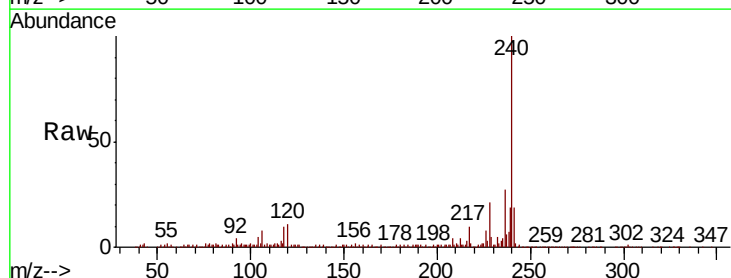
Tgt Ion:240 Resp: 329993

Ion Ratio Lower Upper

240 100

120 11.2 8.4 12.6

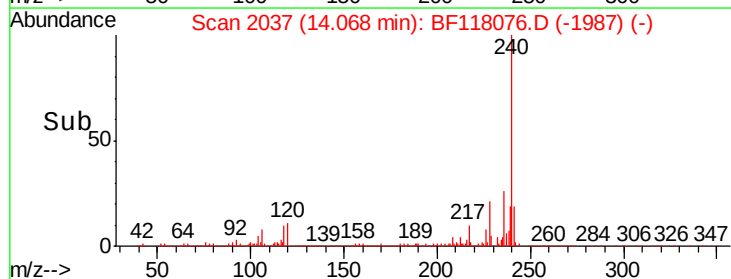
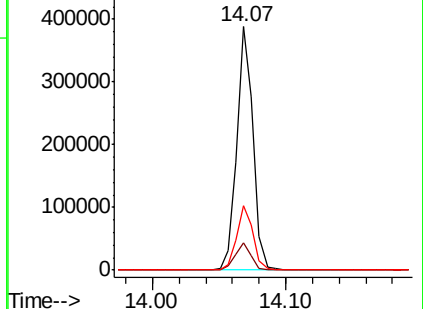
236 26.6 20.6 31.0

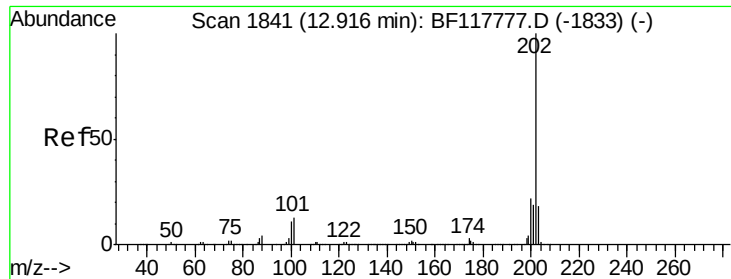


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

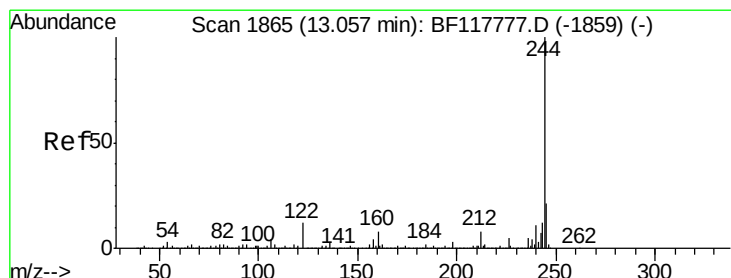
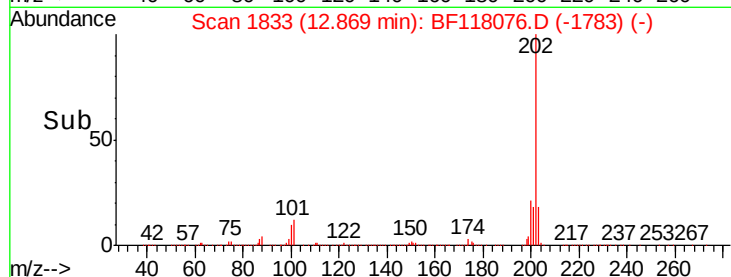
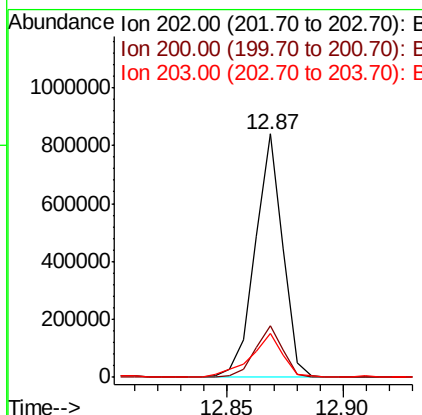
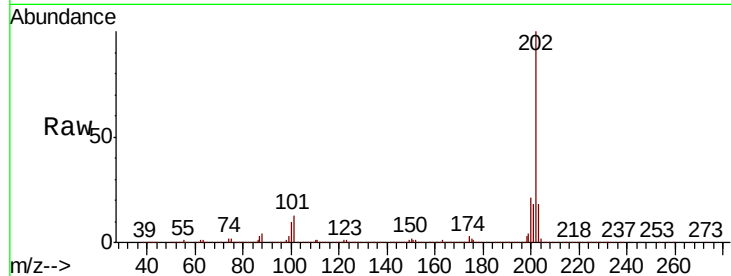




#78
Pvrene
Concen: 26.327 ng
RT: 12.87 min Scan# 1833
Delta R.T. -0.01 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

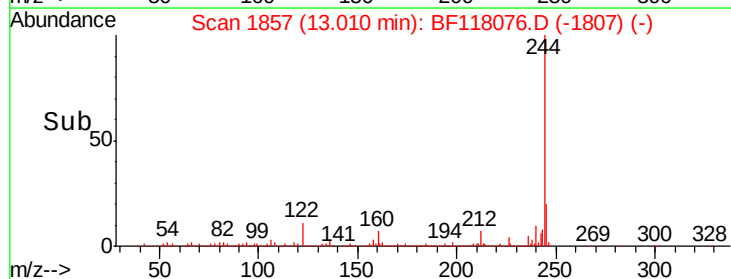
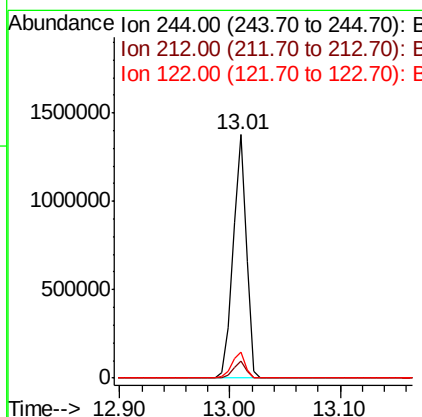
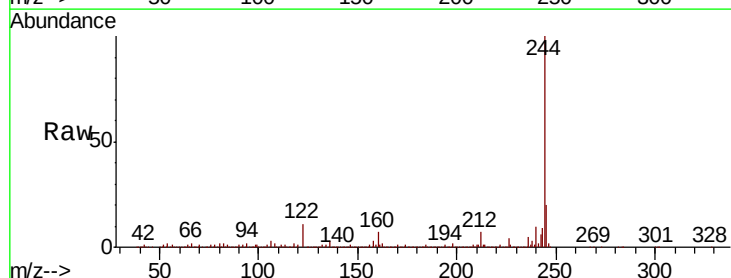
Instrument :
BNA_F
ClientSampled :

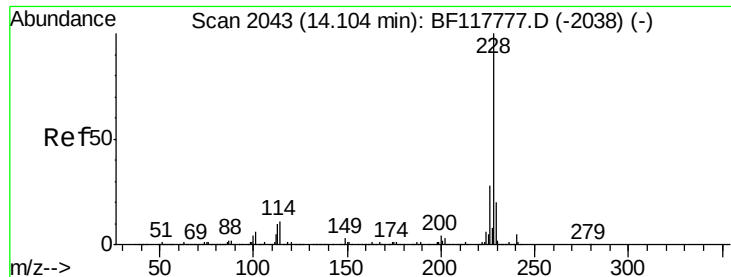
Tot Ion:202 Resp: 702093
Ion Ratio Lower Upper
202 100
200 21.4 17.0 25.6
203 18.0 14.2 21.4



#79
Terphenyl-d14
Concen: 64.377 ng
RT: 13.01 min Scan# 1857
Delta R.T. -0.01 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

Tgt Ion:244 Resp: 1162390
Ion Ratio Lower Upper
244 100
212 7.0 5.2 7.8
122 10.6 7.2 10.8





#81

Benzo(a)anthracene

Concen: 13.834 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

Instrument :

BNA_F

ClientSampleId :

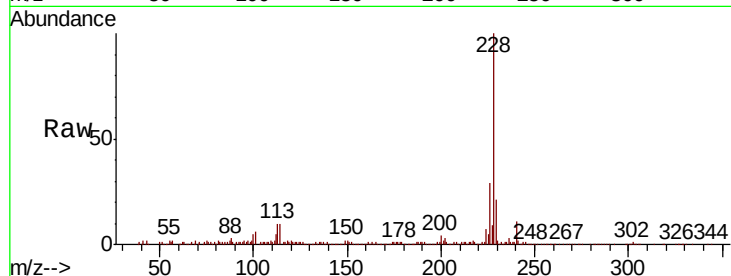
Tot Ion:228 Resp: 301661

Ion Ratio Lower Upper

228 100

226 29.3 21.9 32.9

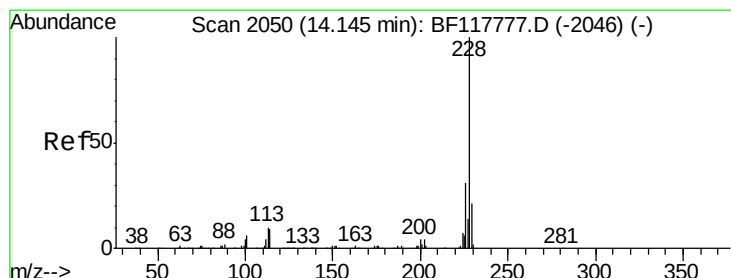
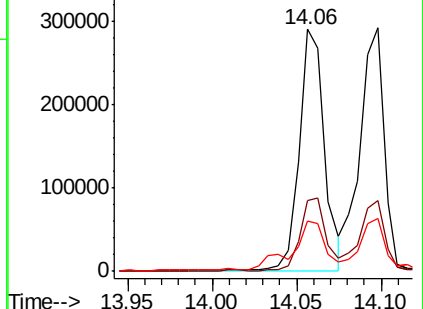
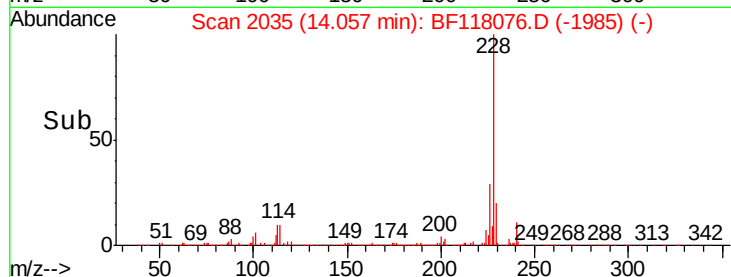
229 20.8 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 13.677 ng

RT: 14.10 min Scan# 2042

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

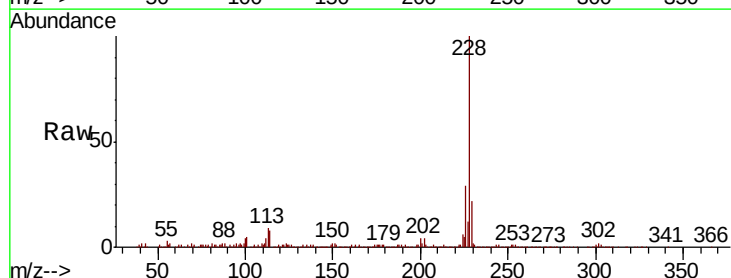
Tgt Ion:228 Resp: 289002

Ion Ratio Lower Upper

228 100

226 29.3 23.6 35.4

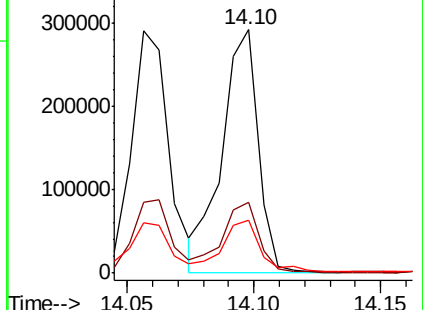
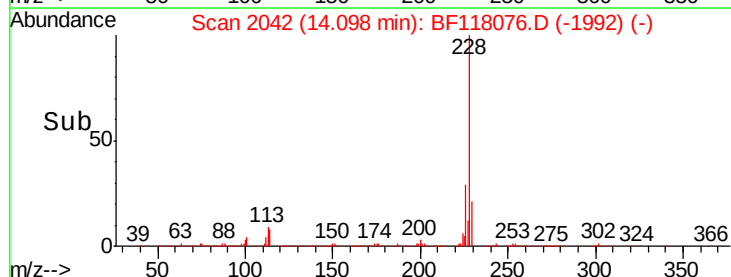
229 22.0 16.2 24.2

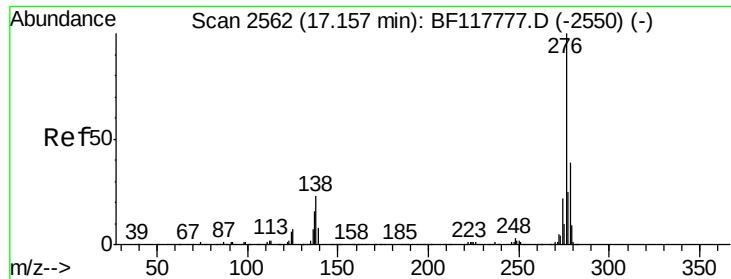


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

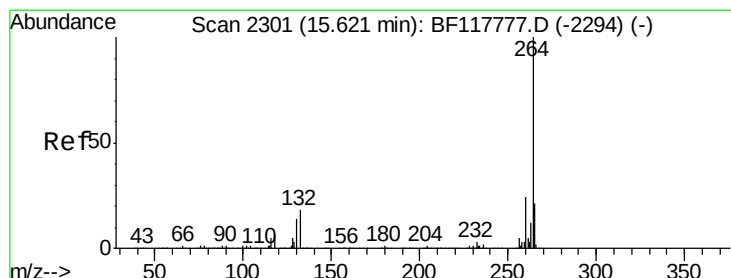
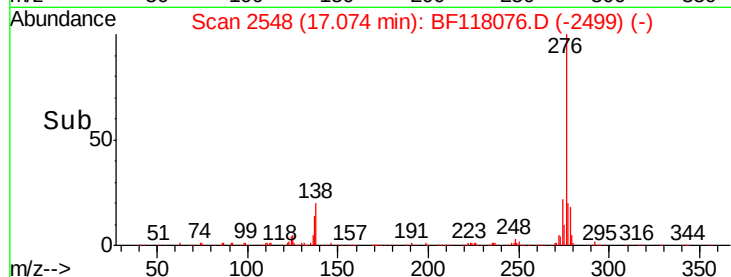
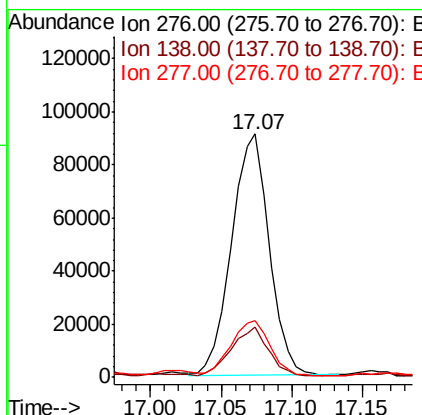
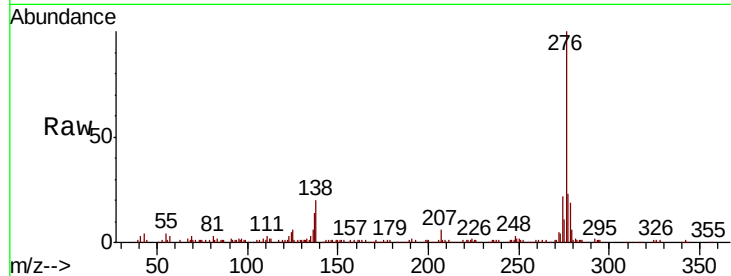




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 9.386 ng
 RT: 17.07 min Scan# 2548
 Delta R.T. -0.01 min
 Lab File: BF118076.D
 Acq: 3 Dec 2019 21:44

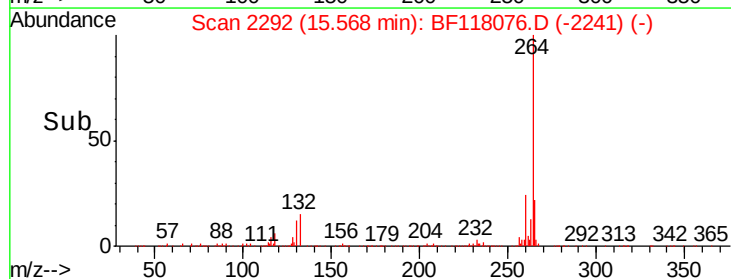
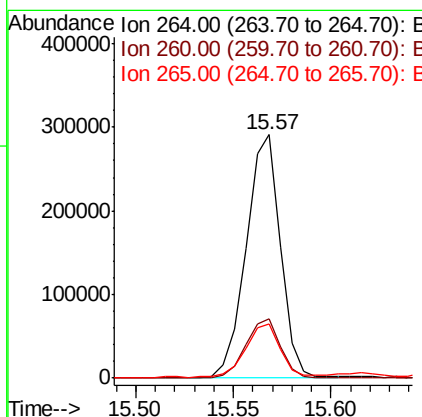
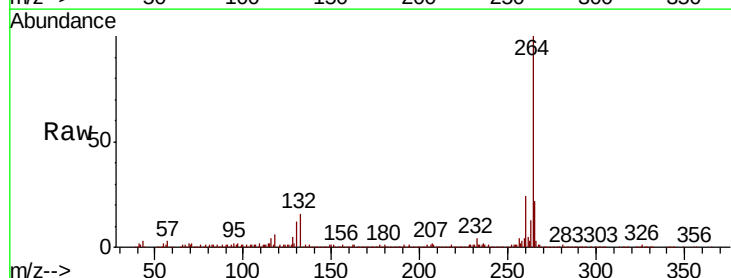
Instrument :
 BNA_F
 ClientSampleId :

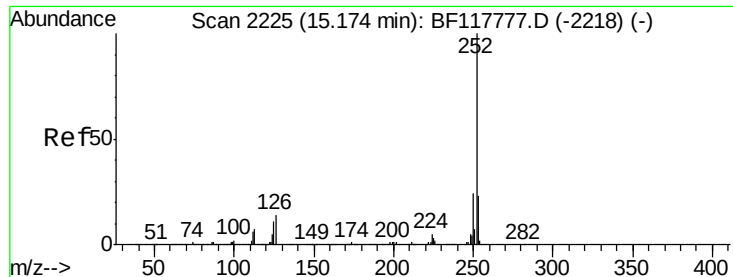
Tot Ion	Ratio	Lower	Upper
276	100		
138	19.9	19.0	28.6
277	24.1	20.7	31.1



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.57 min Scan# 2292
 Delta R.T. 0.00 min
 Lab File: BF118076.D
 Acq: 3 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.0	28.6
265	22.1	16.4	24.6

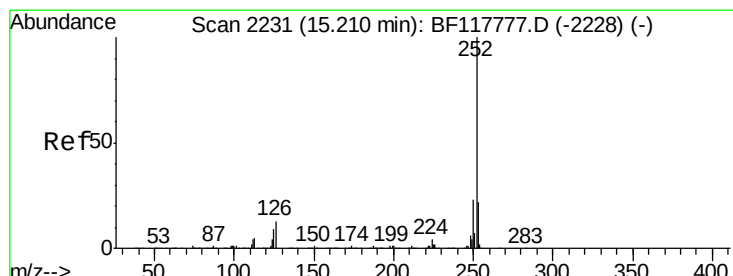
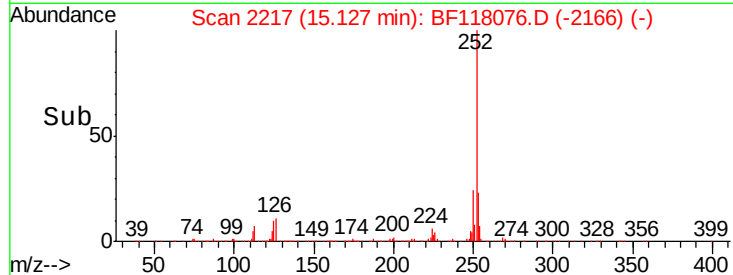
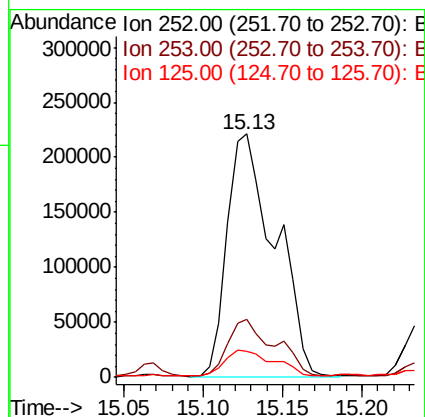
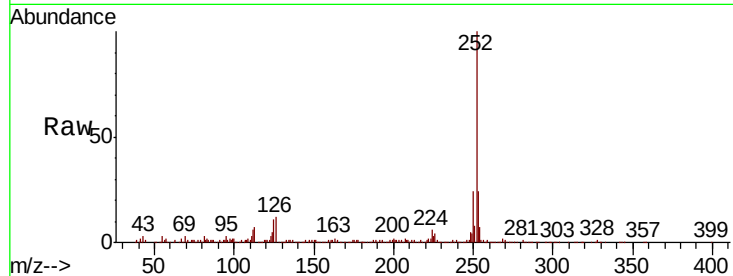




#88
Benzo(b)fluoranthene
Concen: 20.133 ng
RT: 15.13 min Scan# 2217
Delta R.T. 0.00 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

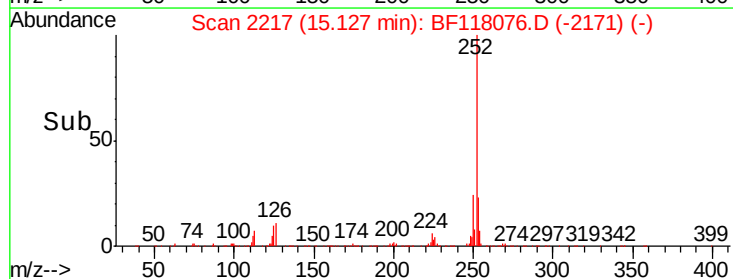
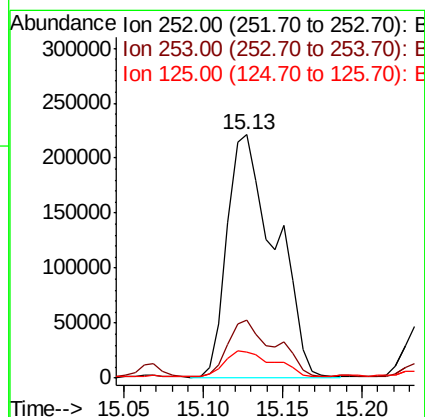
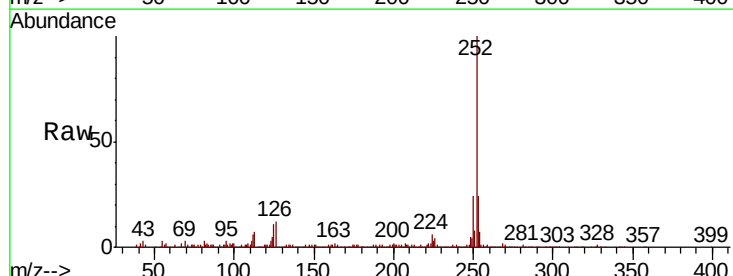
Instrument :
BNA_F
ClientSampleId :

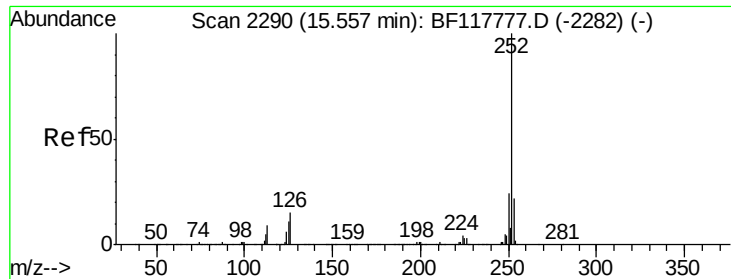
Tot Ion:252 Resp: 462208
Ion Ratio Lower Upper
252 100
253 23.6 18.1 27.1
125 10.8 7.7 11.5



#89
Benzo(k)fluoranthene
Concen: 21.367 ng
RT: 15.13 min Scan# 2217
Delta R.T. -0.03 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

Tgt Ion:252 Resp: 462208
Ion Ratio Lower Upper
252 100
253 23.6 17.3 25.9
125 10.8 8.5 12.7

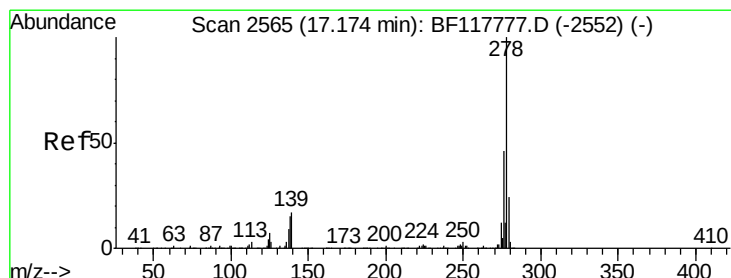
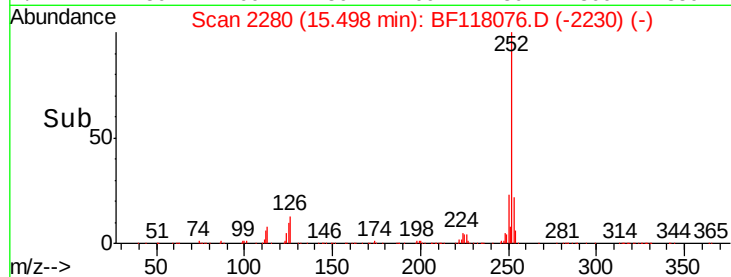
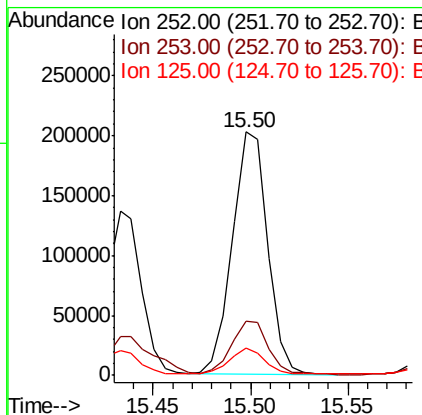
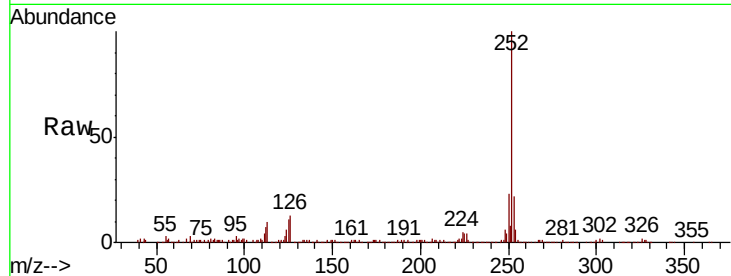




#90
Benzo(a)pyrene
Concen: 12.591 ng
RT: 15.50 min Scan# 2280
Delta R.T. -0.01 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

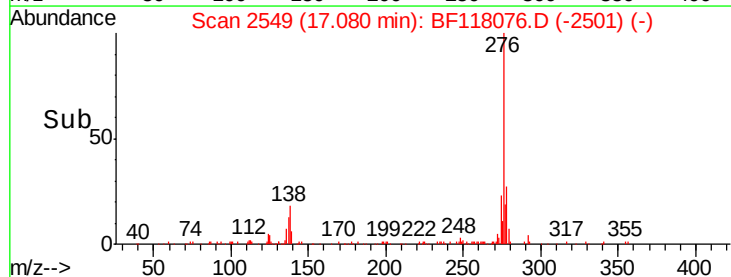
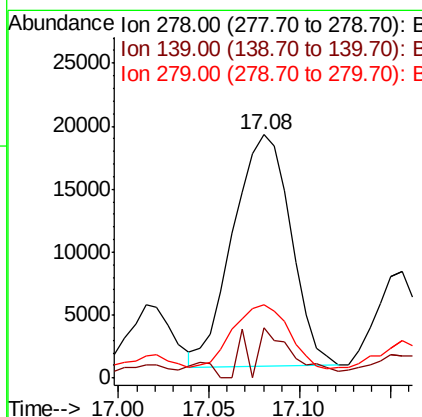
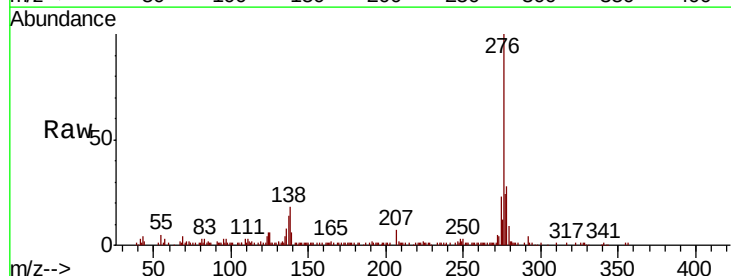
Instrument :
BNA_F
ClientSampleId :

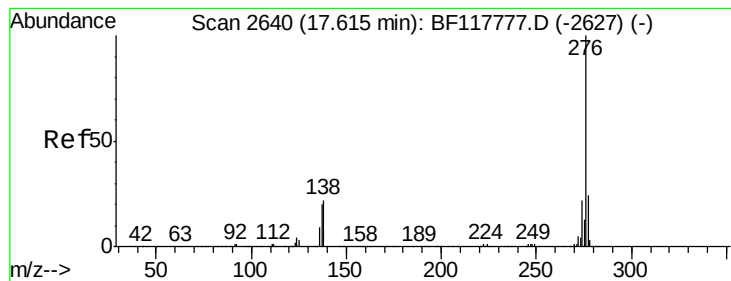
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	11.3	8.9	13.3



#91
Dibenzo(a,h)anthracene
Concen: 2.353 ng
RT: 17.08 min Scan# 2549
Delta R.T. -0.02 min
Lab File: BF118076.D
Acq: 3 Dec 2019 21:44

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.6	12.2	18.4#
279	30.2	19.0	28.6#





#92

Benzo(a,h,i)perylene

Concen: 9.245 ng

RT: 17.53 min Scan# 2626

Delta R.T. -0.01 min

Lab File: BF118076.D

Acq: 3 Dec 2019 21:44

Instrument :

BNA_F

ClientSampleId :

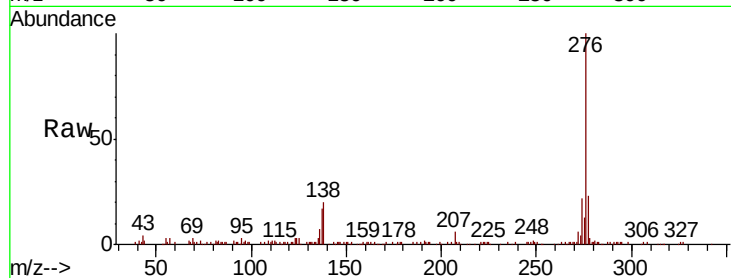
Tot Ion: 276 Resp: 160001

Ion Ratio Lower Upper

276 100

277 22.9 19.0 28.4

138 19.6 16.6 25.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

